
PRODUCT DATA SHEET
C11742

4-Port Dual Directional Coupler employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

| | |
|-----------------|---|
| Frequency: | 20 - 2500 MHz |
| Power: | 200 W CW (20-500 MHz), 150 W CW (500-1000 MHz), 50 W CW (1000-2600 MHz) |
| Coupling: | 40 \pm 1.0 dB Max. |
| Insertion Loss: | 0.5 dB Max. |
| Flatness: | \pm 1.0 dB Max. |
| VSWR (ML): | 1.30:1 Max. |
| Directivity: | 18 dB Min. |

Mechanical Specifications:

| | |
|------------------------|---|
| Type: | Connectorized |
| Material: | Aluminum 6061-T6 |
| Surface Finish: | Chem. Film Per MIL-DTL-5541F Type II Class 3 (Clear Iridite) RoHS Compliant Available |
| Operating Temperature: | -55°C to +75°C |
| Storage Temperature: | -60°C to +85°C |
| Humidity: | 95% Non-Condensing |
| Size: | 1.76 x 1.16 x 0.565" |

Connector Configurations:

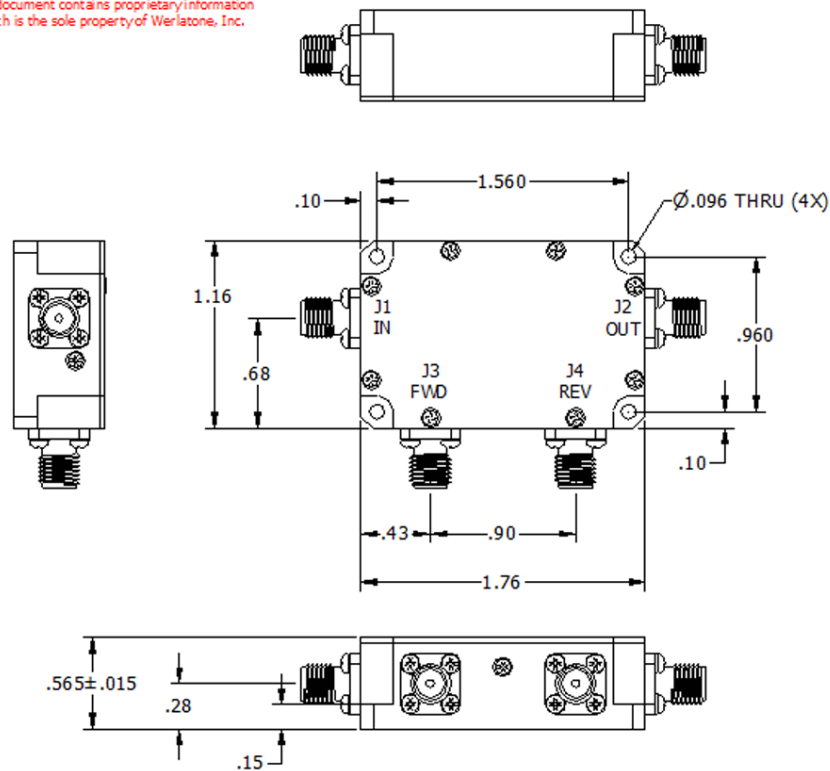
| Model | Input (J1) | Output (J2) | Fwd (J3) | Rev (J4) |
|------------|------------|-------------|----------|----------|
| C11742-102 | SMA | SMA | SMA | SMA |

Werlatone® Broadband Dual, Uni, and Bi Directional RF Couplers are designed to tolerate the most stringent operating conditions associated with military and EMC testing environments. Many of our RF Directional Couplers, designated Mismatch Tolerant®, will operate continuously, at rated power, into a severe load mismatch condition. Our multi-octave Directional Couplers maintain exceptional coupling flatness, directivity, VSWR, and insertion loss.

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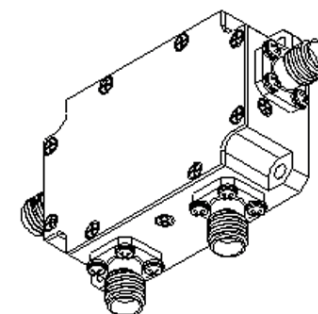
| REVISION HISTORY | | | |
|------------------|-----------------|----------|----------|
| REV | REVISION RECORD | DATE | APPROVED |
| - | INITIAL RELEASE | 7/23/10 | BW |
| A | ECN 5268 | 12/10/10 | BW |

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| UNLESS OTHERWISE SPECIFIED | | | | DWG | | DATE | | 17 Jon Barrett Rd Patterson, NY 12563 | |
| • DIMENSIONS ARE IN INCHES | | | | GP | DATE | 12/10/2010 | | WERLATONE SINCE 1965 | |
| • DIMENSIONS ARE IN INCHES | | | | CHK | DATE | 12/10/2010 | | | |
| • DIMENSIONS ARE IN INCHES | | | | ENGR | DATE | 12/10/2010 | | TITLE | |
| • DIMENSIONS ARE IN INCHES | | | | MRGR | DATE | | | | |
| • DIMENSIONS ARE IN INCHES | | | | QA | DATE | | | SIZE CAGE CODE DWG NO | |
| • DIMENSIONS ARE IN INCHES | | | | REV | DATE | | | | |
| • DIMENSIONS ARE IN INCHES | | | | BW | 12/10/2010 | | | A 28812 20675-500 | A |
| • DIMENSIONS ARE IN INCHES | | | | SCALE | 1:1 | | | SHEET 1 OF 1 | |

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